

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 3175WO0P	FOR FURTHER ACTION		See item 4 below
International application No. PCT/JP2004/007667	International filing date (day/month/year) 27 May 2004 (27.05.2004)	Priority date (day/month/year) 28 May 2003 (28.05.2003)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant TAKEDA PHARMACEUTICAL COMPANY LIMITED			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).
2. This REPORT consists of a total of 6 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input checked="" type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input checked="" type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).

		Date of issuance of this report 16 March 2006 (16.03.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		Authorized officer Masashi Honda
Facsimile No. +41 22 740 14 35		Telephone No. +41 22 338 70 10

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

<p style="margin: 0;">Date of mailing (day/month/year)</p>		
<p style="margin: 0;">FOR FURTHER ACTION</p>		
<p style="margin: 0; text-align: center;">See paragraph 2 below</p>		
<p>International application No. PCT/JP2004/007667</p>	<p>International filing date (day/month/year) 27.05.2004</p>	<p>Priority date (day/month/year) 28.05.2003</p>
<p style="margin: 0;">International Patent Classification (IPC) or both national classification and IPC</p>		
<p style="margin: 0;">Applicant TAKEDA PHARMACEUTICAL COMPANY LIMITED</p>		

1. This opinion contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the opinion
<input type="checkbox"/>	Box No. II	Priority
<input checked="" type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input checked="" type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP	Authorized officer
Facsimile No.	Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/007667

Box No. I	Basis of this opinion
	<p>1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</p> <p><input type="checkbox"/> This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).</p> <p>2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:</p> <ol style="list-style-type: none">a. type of material<p><input checked="" type="checkbox"/> a sequence listing <input type="checkbox"/> table(s) related to the sequence listing</p>b. format of material<p><input type="checkbox"/> in written format <input checked="" type="checkbox"/> in computer readable form</p>c. time of filing/furnishing<p><input type="checkbox"/> contained in the international application as filed. <input checked="" type="checkbox"/> filed together with the international application in computer readable form. <input type="checkbox"/> furnished subsequently to this Authority for the purposes of search.</p> <p>3. <input checked="" type="checkbox"/> In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.</p> <p>4. Additional comments:</p>

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/007667

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

the entire international application
 claims Nos. 52-56, 66

because:

the said international application, or the said claims Nos. 52-56, 66
relate to the following subject matter which does not require an international preliminary examination (specify):

The subject matter of claims 52-65 pertains to a method of diagnosis of the human body and the subject matter of claim 66 pertains to a method of treatment of the human body by therapy.

the description, claims or drawings (*indicate particular elements below*) or said claims Nos. _____ are so unclear that no meaningful opinion could be formed (specify):

the claims, or said claims Nos. _____ are so inadequately supported by the description that no meaningful opinion could be formed.

no international search report has been established for said claims Nos. 52-56, 66

the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:

the written form	<input type="checkbox"/> has not been furnished <input type="checkbox"/> does not comply with the standard
the computer readable form	<input type="checkbox"/> has not been furnished <input type="checkbox"/> does not comply with the standard

the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.

See Supplemental Box for further details.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/007667

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement																									
<p>1. Statement</p> <table> <tr> <td>Novelty (N)</td> <td>Claims</td> <td>8, 11, 21, 24, 34, 37, 58-59, 61-62, 64-65 1-7, 9-10, 12-20, 22-23, 25-33, 35-36, 38-51, 57, 60, 63, 67</td> <td>YES</td> </tr> <tr> <td></td> <td>Claims</td> <td></td> <td>NO</td> </tr> <tr> <td>Inventive step (IS)</td> <td>Claims</td> <td></td> <td>YES</td> </tr> <tr> <td></td> <td>Claims</td> <td>1-51, 57-65, 67</td> <td>NO</td> </tr> <tr> <td>Industrial applicability (IA)</td> <td>Claims</td> <td>1-51, 57-65, 67</td> <td>YES</td> </tr> <tr> <td></td> <td>Claims</td> <td></td> <td>NO</td> </tr> </table>			Novelty (N)	Claims	8, 11, 21, 24, 34, 37, 58-59, 61-62, 64-65 1-7, 9-10, 12-20, 22-23, 25-33, 35-36, 38-51, 57, 60, 63, 67	YES		Claims		NO	Inventive step (IS)	Claims		YES		Claims	1-51, 57-65, 67	NO	Industrial applicability (IA)	Claims	1-51, 57-65, 67	YES		Claims		NO
Novelty (N)	Claims	8, 11, 21, 24, 34, 37, 58-59, 61-62, 64-65 1-7, 9-10, 12-20, 22-23, 25-33, 35-36, 38-51, 57, 60, 63, 67	YES																							
	Claims		NO																							
Inventive step (IS)	Claims		YES																							
	Claims	1-51, 57-65, 67	NO																							
Industrial applicability (IA)	Claims	1-51, 57-65, 67	YES																							
	Claims		NO																							
<p>2. Citations and explanations:</p> <p>Document 1: WO 01/98494 A1 (Takeda Chemical Industries, Ltd.) 27 December 2001 Document 2: WO 02/102847 A1 (Takeda Chemical Industries, Ltd.) 27 December 2002</p> <p>The subject matter of claims 1-7, 9-10, 12-20, 22-23, 25-33, 35-36, 38-51, 57, 60, 63 and 67 do not appear to be novel based on documents 1 and 2. Documents 1 and 2 describe an antibody to the ligand for GPR8, and an antibody to the ligand for GPR7.</p> <p>The subject matter of claims 1-51, 57-65, and 67 do not appear to involve an inventive step based on documents 1 and 2. Documents 1 and 2 describe an amino acid sequence of the ligand for GPR8, an amino acid sequence of the ligand for GPR7, and a production method for the antibody to aforementioned ligand. Producing a synthesized peptide based on the amino acid sequences described in documents 1 and 2, then producing an antibody to the ligand by using the synthesized peptide as an immunogen can be easily achieved by a party skilled in the art.</p>																										

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/007667

Box No. VI Certain documents cited			
1. Certain published documents (Rule 43bis.1 and 70.10)			
Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
WO 03/082907 A1 [P, X]	09.10.2003	28.03.2003	29.03.2002
2. Non-written disclosures (Rule 43bis.1 and 70.9)			
Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)	

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 0344/04/PCT	FOR FURTHER ACTION	See item 4 below
International application No. PCT/EP2004/009729	International filing date (<i>day/month/year</i>) 01 September 2004 (01.09.2004)	Priority date (<i>day/month/year</i>) 03 September 2003 (03.09.2003)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant TECHNISCHE UNIVERSITÄT ILMENAU		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).
2. This REPORT consists of a total of 15 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

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		Date of issuance of this report 26 September 2006 (26.09.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer	Ellen Moyse
Facsimile No. +41 22 338 82 70	e-mail: pt05@wipo.int	